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APPLICANT: OSAKA GAS CO LTD;

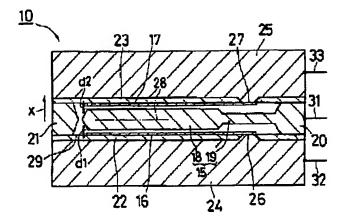
INVENTOR: FUJISAWA SHOZO;

INT.CL.

: G01C 9/06 G01C 9/12

TITLE

: INCLINOMETER



ABSTRACT: PURPOSE: To provide an inclinometer by which the inclination angle of an object to be measured can be measured with good accuracy and which is small and lightweight.

> CONSTITUTION: An inclination sensor 10 is provided with a pendulum 15 which is supported so as to be open-sided and with a pair of electrodes 16, 17 which are arranged so as to be separated from the pendulum 15 in a direction in which the pendulum 15 is displaced back and forth. When the inclination sensor 10 is tilted at an angle $\boldsymbol{\theta}_{\text{t}}$ gravitation F acts on the center of gravity G of the pendulum 15, a component force F1=F.sin0 acts in the displacement direction of the pendulum 15, a bending moment is applied to the pendulum 15, and the pendulum 15 is deformed elastically. As a result, an interval d1 is made small, an interval d2 is made large, and a capacitance between the pendulum 15 and the respective electrodes 16, 17 is changed.

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